| Index of | Claims |
|----------|--------|
| | |

| Applicati | on/Control | No. |
|-----------|------------|-----|
|-----------|------------|-----|

Applicant(s)/Patent under Reexamination

10/591,422 Examiner

Patrick D. Niland

IZUMI ET AL. Art Unit

1714

Rejected Allowed

| 1 | (Through numeral) Cancelled |
|---|--------------------------------|
| + | Restricted |

Non-Elected Interference

| A | Appeal |
|---|----------|
| 0 | Objected |

| | | Ц. | <u> </u> | | | | J | | | |
|--|---|----------|--------------|----------------|----------|----------------|---------------|----------|----------|----------|
| Cla | ion | _ | | | | D-4 | _ | | | _ |
| 1 | | - | <u>Dat</u> | 8 - | _ | _ | \vdash | | | |
| = | Original | 2 | R | 1 | | ı | | | | ĺ |
| Final | <u>.</u> | 5/21/07 | 6 | Ł | l | | l | ı | ł | H |
| ١ " | ŏ | જ | 19 | 1 | l | | | | | ı |
| | | ⊢ | 120 | 1 | ├ | ┝ | ⊢ | ⊢ | ├ | Н |
| | - | - | <u> </u> | ┞ | ┡ | ┝ | ļ | - | - | Н |
| | 2 | - | ⊢ | ├- | ⊬ | ⊢ | ├ | ├ | ┝ | Н |
| <u> </u> | | ┝ | ┢ | ╌ | ├ | ⊢ | - | ⊢ | ⊢ | Н |
| ├─ | | ⊢ | | ١. | ├ | ┢ | ⊢ | ⊢ | ├- | Н |
| | -6 | - | Γ, | - | ⊢ | ⊢ | ⊢ | ┢ | ├ | Н |
| — | 7 | K | Y | ┰ | ┢ | ⊢ | ╁ | ╌ | ╌ | Н |
| \vdash | R | H | 1 | ╁─ | ┢╌ | ⊢ | ┝ | ╁ | ┢ | Н |
| | 3 | Н | H | ╁ | ┢ | ⊢ | ┝ | ┢ | ┝ | ╌┤ |
| | 10 | N | Η, | ╌ | ┢ | | ├─ | ┢ | ⊢ | Н |
| | 11 | Н | H | ╁ | ⊢ | ├ | ┢ | ├ | ⊢ | Н |
| \vdash | 12 | ₩ | ₩ | ┢ | - | ┢ | - | ⊢ | ┢ | Н |
| - | 13 | H | ┢ | \vdash | ┞ | - | - | ┢ | \vdash | Н |
| \vdash | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 | \vdash | | - | ┢ | ╁ | ╁ | \vdash | ├ | ⊢┤ |
| | 15 | ┝ | ┢─ | ┢ | \vdash | | ⊢ | ┢ | - | Н |
| $\vdash \vdash$ | 16 | \vdash | \vdash | | \vdash | \vdash | \vdash | | ⊢ | Н |
| | 17 | \vdash | | - | ├- | ⊢ | \vdash | \vdash | - | Н |
| \vdash | 10 | _ | \vdash | | ⊢ | - | | - | \vdash | Н |
| \vdash | 10 | _ | <u> </u> | - | ⊢ | ┢ | \vdash | ┝ | - | Н |
| \vdash | 20 | _ | - | ⊢ | - | - | \vdash | ├─ | ├ | Н |
| \vdash | 21 | _ | - | ├ | ⊢ | - | - | H | ⊢ | Н |
| \vdash | 22 | - | Н | \vdash | - | | | ⊢ | - | Н |
| \vdash | 23 | - | | ┝ | - | _ | ├ | - | - | Н |
| \vdash | 24 | | H | - | - | - | ┝ | - | - | Н |
| - | 25 | _ | \vdash | ├- | ⊢ | - | - | - | ┝ | Н |
| \vdash | 26 | | | ⊢ | Η- | \vdash | H | - | ⊢ | Н |
| \vdash | 27 | - | Н | - | ┝ | - | ┝ | ┢ | ┢ | Н |
| \vdash | 28 | | _ | - | \vdash | - | | - | - | Н |
| | 29 | | | ┝ | \vdash | - | \vdash | \vdash | \vdash | Н |
| \vdash | 30 | - | - | ┢ | ┢ | - | ┝ | | | Н |
| | 31 | | | \vdash | \vdash | \vdash | ┢ | | - | Н |
| | 32 | | | ┢ | \vdash | _ | - | - | Н | H |
| | 31 32 33 34 35 36 37 | | | | | \vdash | \vdash | \vdash | | \vdash |
| \Box | 34 | \Box | | _ | | \vdash | \vdash | \vdash | | Н |
| | 35 | | | | | | | | | Н |
| | 36 | \neg | | | П | | $\overline{}$ | | | Н |
| | 37 | | \vdash | Т | | | | П | | Н |
| | 38 39 | | | _ | | | \vdash | | | П |
| | 39 | | | | | _ | _ | | М | Н |
| | 40 | | | <u> </u> | | - | Г | | | Н |
| | 41 | | | | | | | | \Box | Н |
| | 42 | \neg | | | | $\overline{}$ | | | 1 | П |
| | 43 | | | | | | | | | П |
| | 44 | | | | | | | П | П | П |
| | 45 | | | | | | | | | Н |
| | 46 | | | | | | | | | П |
| | 47 | | | | | | | | | |
| | 48 | | | | | | | | | |
| | 49 | | | | | | | | | |
| | 50 | | | | | | | | | |

| Cla | im | Date | | | | | | | | |
|-------------------|----------|--|----------|--------------|----------|------------|----------|----------|--|--|
| | | 1 | Г | Т | Т | Ţ <u>-</u> | Í | П | Т | Т |
| Final | Original | | | | | | | | | |
| | 51 | ┢ | | ┝ | ┝ | \vdash | ├ | H | ╁ | ⊢ |
| _ | 51 52 | - | | 1 | ╁╴ | \vdash | - | - | \vdash | ┢ |
| | 53 | \vdash | - | ┢ | ╁╴ | ╁ | ┢ | ┢ | ╁ | ╁╴ |
| | 54 | 1 | | ⊢ | ╁╌ | ╁─ | ┢ | - | ┢ | ┢ |
| _ | 55 | \vdash | - | ┢ | ├- | ╌ | - | ┢ | ⊢ | ⊢ |
| | 56 | | \vdash | ┢ | ┢ | ╁ | ┢ | - | ┢ | ⊢ |
| | 57 | • | Ι | ╁ | H | \vdash | \vdash | \vdash | H | ┢ |
| | 58 | \vdash | _ | \vdash | ┪ | \vdash | ┢ | H | | |
| | 59 | 1 | | \vdash | Ι- | ┪ | ┢ | 1 | ┢ | - |
| | 60 | | _ | | 1 | H | \vdash | \vdash | _ | \vdash |
| | 61 | | \vdash | _ | \vdash | | | ┢╌ | ┢ | _ |
| | 61 62 | Т | | \vdash | Г | | \vdash | \vdash | Г | |
| | 63 | | <u> </u> | 1 | \vdash | Т | Г | \vdash | Г | <u> </u> |
| | 64 | | | | T | | | \vdash | ┢ | Т |
| | 65 | | | | | | | | | \vdash |
| | 66 | T | | Г | Τ | 1 | Г | | Г | |
| | 67 | | | | | П | | | Г | |
| | 68 | | | | | Г | | | | |
| | 69 70 | | | | | | | | | |
| | 70 | | | | | | | | | |
| | 71 | | | | | | | | Ŀ | |
| | 72 | | | | | L | L | | | |
| <u> </u> | 73 | _ | | L | L | 匚 | <u> </u> | _ | Щ | L |
| ldash | 74 75 | <u> </u> | ļ | <u> </u> | <u> </u> | L. | L. | \vdash | <u> </u> | L. |
| | 75 | ⊢ | <u> </u> | ┞ | <u> </u> | <u> </u> | <u> </u> | | <u> </u> | _ |
| } | 76 77 | | | ├ | \vdash | ⊢ | <u> </u> | _ | ⊢ | |
| \vdash | 78 | - | - | ├ | ⊢ | \vdash | <u> </u> | \vdash | \vdash | \vdash |
| \vdash | 79 | \vdash | | ⊢ | \vdash | - | - | _ | ├ | ┝ |
| Н | 80 | ├─ | H | _ | ┢ | H | | _ | H | \vdash |
| | 81 | - | _ | - | \vdash | \vdash | - | | \vdash | \vdash |
| | 82 | Т | | \vdash | \vdash | \vdash | | | \vdash | |
| | 83 | | | | | \vdash | | | | |
| | 84 | | | | | | | | | |
| | 85 | | | | | | | | | |
| | 86 | | | | | | | | | |
| | 87 | | | | | | | | | |
| | 88 | | | | | | | | | |
| | 89 | | | | L | Ц | _ | | | _ |
| \longrightarrow | 90 | | | | L_ | | _ | _ | | Щ |
| | 91 | <u> </u> | - | <u> </u> | <u> </u> | Щ | <u> </u> | | | <u> </u> |
| \vdash | 92 93 | \vdash | \vdash | ┝ | \vdash | Н | - | _ | <u> </u> | \vdash |
| | 93 | | - | \vdash | \vdash | \vdash | - | | - | H |
| \vdash | 95 | - | - | | - | | | | \vdash | |
| \vdash | 96 | Η | | \vdash | \vdash | \vdash | \vdash | H | Н | \vdash |
| | 97 | - | _ | \vdash | \vdash | Н | _ | \vdash | Н | \vdash |
| | 98 | Н | | \vdash | Т | Н | | | Н | Н |
| | 99 | | | Г | П | | | | | |

100

| CI | aim | Date | | | | | | | | |
|----------------------|------------|------|----------|----------|--------------|----------|----------|--------------|----------|-----------------------|
| | | | 1 | Т | Ī | Γ | Π | Г | Г | П |
| Final | Original | | | | | | | | | |
| | 101 102 | | | | | | | | | |
| <u> </u> | 102 | | ļ | <u> </u> | _ | L | L | L_ | ļ_ | Ш |
| | 103 | _ | _ | _ | ᆫ | L | ᄂ | _ | ┖ | |
| | 104 105 | _ | L | L | L | | ᆫ | L | Ь. | Ш |
| L | 105 | | _ | L | L | L | L | L | _ | \Box |
| | 106 | | L | _ | <u>_</u> | L | _ | _ | _ | |
| | 107 | | _ | _ | <u></u> | L | L | _ | L. | |
| | 108 | _ | L | L | 匚 | L | 匚 | L | L | |
| | 109 | | L | L | 匚 | L | L | | _ | |
| | 110 | | L | L_ | <u>_</u> | 乚 | L | L | <u> </u> | |
| | 111 | | 乚 | L | L | L | L | L | | |
| | 112 | | | | | | | | | |
| | 113 | | Ĺ | L | L | \Box | Ĺ | Ĺ | Ĺ | |
| | 114 | | 匚 | 匚 | | 匚 | | 匚 | | |
| | 115 | | | L | | | | | | |
| | 116 | | | L | | | | | | |
| | 117 | | | | | | | | | |
| | 118 | | П | Г | Г | | | | Г | |
| | 119 | | Г | Г | Г | | | | Г | |
| | 120 | | | Г | Г | Г | | | П | |
| | 121 | | | | | Г | | | Г | |
| | 122 | | | | Г | Г | | | Г | П |
| | 122 123 | | | | | | Г | | | П |
| | 124 | | | | | | | | Г | П |
| | 125 | | | | | | | | | |
| | 126 | | | | | | | | | |
| | 127 128 | | | | | | | | | |
| | 128 | | L | | | | L | | | |
| Щ | 129 130 | | | | | | | | <u> </u> | |
| Ш | 130 | | | | | | | | | |
| | 131 | | _ | _ | $oxed{oxed}$ | | L | | L | Ш |
| | 132 133 | | _ | L | L | | | _ | L., | Ш |
| Ш | 133 | | _ | L_ | Ц. | | L. | L | L | Ш |
| ┝┈┤ | 134 | | — | — | <u> </u> | Ш | _ | <u> </u> | \vdash | Ш |
| | 135 | | | <u> </u> | L | Щ | \vdash | <u> </u> | | Щ |
| $\vdash \vdash$ | 136 | | <u> </u> | <u> </u> | \vdash | Щ | <u> </u> | _ | <u> </u> | Ш |
| $oxed{oxed}$ | 137 | | | <u> </u> | <u> </u> | Ш | igspace | \vdash | L | Ш |
| ш | 138 | | _ | <u> </u> | L | Ш | | <u> </u> | _ | Ш |
| | 139 | | L | <u> </u> | Щ | Щ | _ | L_ | <u> </u> | Ы |
| | 140 | | <u> </u> | <u> </u> | <u> </u> | Щ | \vdash | <u> </u> | \vdash | Ш |
| | 141 | | <u> </u> | | <u> </u> | Н | <u> </u> | Щ | — | Ш |
| ш | 142 | | _ | <u> </u> | Ш | Н | \vdash | - | H | Щ |
| \vdash | 143 | _ | - | <u> </u> | \vdash | <u> </u> | | <u> </u> | _ | Ш |
| \vdash | 144 | | ⊢ | <u> </u> | Н | Н | \vdash | <u> </u> | \vdash | $\vdash \vdash$ |
| \vdash | 145 | _ | <u> </u> | \vdash | | - | - | \vdash | \vdash | \dashv |
| $\vdash \vdash$ | 146 | _ | \vdash | - | \vdash | \vdash | \vdash | | ┝╌ | $\vdash \vdash$ |
| \vdash | 147 | | \vdash | \vdash | H | H | \vdash | \vdash | \vdash | $\vdash \dashv$ |
| $\vdash\vdash\vdash$ | 149 | - | \vdash | \vdash | H | \vdash | - | \vdash | \vdash | ${oldsymbol{ecture}}$ |
| \vdash | 150 | - | ⊢ | H | \vdash | Н | | - | \vdash | Н |
| ш | 130 | | ـــِــا | | Ц. | ╙ | لـــا | Ц | | لب |